

ADOT MATERIALS GROUP, QUALITY ASSURANCE SECTION

LISTING OF TEST PROCEDURES FOR WHICH INSPECTION COVERAGE IS AVAILABLE

QUALITY MANUAL

- X R 18 Establishing and Implementing a Quality System for Construction Materials Testing Laboratories.
(Mandatory for all ADOT approved labs. Documentation should be available for review)

SOILS AND AGGREGATES

- ___ AZ 201 Sieving of Coarse and Fine Graded Soils and Aggregates
- ___ AZ 210 Specific Gravity and Absorption of Coarse Aggregate
*(Requires prior AAP accreditation for AASHTO T-85)
- ___ AZ 211 Specific Gravity and Absorption of Fine Aggregate
*(Requires prior AAP accreditation for AASHTO T-84)
- ___ AZ 212 Percentage of Fractured Coarse Aggregate Particles
- ___ AZ 220 Determination of Cement Content Required for Cement Treated Mixtures
- ___ AZ 221 Moisture-Density Relations of Cement-Treated Mixtures
*(Requires prior AAP accreditation for AASHTO T-134)
- ___ AZ 222 Rock Correction Procedure for Maximum Density Determination of Cement Treated Mixtures
- ___ AZ 225 Maximum Dry Density and Optimum Moisture of Soils by Proctor Method A
*(Requires prior AAP accreditation for AASHTO T-99)
- ___ AZ 226 Maximum Density and Optimum Moisture of Soils Methods C and D
*(Requires prior AAP accreditation for AASHTO T-99, C & D)
- ___ AZ 227 Rock Correction Procedure for Maximum Dry Density and Optimum Moisture Content Determination
- ___ AZ 232 Moisture Density Relationship Using Typical Moisture Density Curves (One Point Proctor)
Method A
- ___ AZ 233 Flakiness Index of Coarse Aggregate
- ___ AZ 236 Determining pH and Minimum Resistivity of Soils and Aggregates
- ___ AZ 237 Determining pH and Soluble Salts of Soils
- ___ AZ 238 Percent Carbonates in Aggregate
- ___ AZ 242 Sand Equivalent Test for Mineral Aggregate for
Asphaltic Concrete Friction Course
*(Requires prior AAP accreditation for AASHTO T-176)
- ___ AZ 245 Maximum Dry Density and Optimum Moisture of Soils by Proctor Alternate Method D
*(Requires prior AAP accreditation for AASHTO T-99)
- ___ AZ 246 Moisture - Density Relationship using Typical Moisture - Density Curves (One Point Proctor)
Alternate Method D

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SOILS AND AGGREGATES (cont'd.)

—	AZ 247	Particle Shape and Texture of Fine Aggregate Using Uncompacted Void Content
—	AZ 248	Alternate Procedures for Sieving of Coarse and Fine Graded Soils and Aggregates
—	AASHTO T19	Unit Weight and Voids in Aggregate *(Requires prior AAP accreditation for AASHTO T-19)
—	AASHTO T89	Determining the Liquid Limit of Soils *(Requires prior AAP accreditation for AASHTO T-89)
—	AASHTO T90	Determining the Plastic Limit and Plasticity Index of Soils *(Requires prior AAP accreditation for AASHTO T-90)
—	AASHTO T96	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine *(Requires prior AAP accreditation for AASHTO T-96)
—	AASHTO T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test *(Requires prior AAP accreditation for AASHTO T-176)
—	AASHTO T217	Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester
—	AASHTO T255	Total Moisture Content of Aggregate by Drying *(Requires prior AAP accreditation for AASHTO T-255)
—	AASHTO T265	Laboratory Determination of Moisture Content of Soils *(Requires prior AAP accreditation for AASHTO T-265)
—	ASTM D 4791	Flat and Elongated Particles in Coarse Aggregate *(Requires prior AAP accreditation for ASTM D 4791)

CONCRETE

—	AZ 314	Compressive Strength of Cylindrical Concrete Specimens *(Requires prior AAP accreditation for AASHTO T-22)
—	AASHTO T23	Making and Curing Concrete Test Specimens In The Field *(Requires prior AAP accreditation for AASHTO T-23)
—	AASHTO T119	Slump of Hydraulic Cement Concrete *(Requires prior AAP accreditation for AASHTO T-119)
—	AASHTO T121	Mass per Cubic Meter (Cubic Foot), Yield, and Air Content (Gravimetric) of Concrete *(Requires prior AAP accreditation for AASHTO T-121)
—	AASHTO T152	Air Content of Freshly Mixed Concrete By The Pressure Method *(Requires prior AAP accreditation for AASHTO T-152)

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BITUMINOUS MIXTURES

—	AZ 402	Bitumen Content of Bituminous Mixtures by Vacuum Extraction
—	AZ 406	Moisture Content of Bituminous Mixtures
—	AZ 407	Determination of Bitumen Retained in Bituminous Mixtures
—	AZ 410	Compaction and Testing of Bituminous Mixtures Utilizing 101.6 mm (Four Inch) Marshall Apparatus (AZ 815) *(Requires prior AAP accreditation for AASHTO T-245 & ASTM D-1559)
—	AZ 415	Bulk Specific Gravity of Compacted Bituminous Mixtures *(Requires prior AAP accreditation for AASHTO T-166)
—	AZ 416	Preparing, Splitting, and Testing of Bituminous Mixtures
—	AZ 417	Maximum Theoretical Specific Gravity of Field Produced Bituminous Mixtures (Rice Test) (AZ 806) *(Requires prior AAP accreditation for AASHTO T-209)
—	AZ 421	Bituminous Material Content of Asphaltic Concrete Mixtures by the Nuclear Method
—	AZ 422	Compaction and Testing of Bituminous Mixtures Utilizing 152.4 mm (6") Marshall Apparatus
—	AZ 424	Determination of Voids in Compacted Bituminous Mixtures
—	AZ 427	Asphalt Binder Content of Asphaltic Concrete Mixtures by the Ignition Furnace Method
—	AASHTO T312	Preparing and Determining the Density of Hot Mix Asphalt Specimens by Means of the Superpave Gyratory Compactor *(Requires prior AAP accreditation for AASHTO T312)

DESIGN

—	AZ 802	Effect of Water on Strength of Compacted Bituminous Mixtures (Immersion Compression Test) *(Requires prior AAP accreditation for AASHTO T-165 & T 167)
—	AZ 806	Maximum Theoretical Specific Gravity of Laboratory Prepared Bituminous Mixtures (Rice test) (AZ 417) *(Requires prior AAP accreditation for AASHTO T-209)
—	AZ 815	Marshall Mix Design Method for Asphaltic Concrete (AZ 410) *(Requires prior AAP accreditation for AASHTO T-245 & ASTM D-1559)
—	AASHTO T283	Resistance of Compacted Bituminous Mixtures to Moisture Induced Damage *(Requires prior AAP accreditation for AASHTO T-283)

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BITUMINOUS MATERIALS

—	AZ 502	Percentage of Uncoated Particles Using Asphalt Emulsions
—	AZ 504	Vacuum Recovery of Asphalt Emulsion Residue
—	AZ 512	Residue by Evaporation
—	AASHTO T48	Flash and Fire Points by Cleveland Open Cup *(Requires prior AAP accreditation for AASHTO T-48)
—	AASHTO T49	Penetration of Bituminous Materials *(Requires prior AAP accreditation for AASHTO T-49)
—	AASHTO T51	Ductility of Bituminous Materials *(Requires prior AAP accreditation for AASHTO T-51)
—	AASHTO T59	Testing Emulsified Asphalts: *(Requires prior AAP accreditation for AASHTO T-59) Particle Charge Saybolt Furol Viscosity (77° and 122° F.) Sieve Test
—	AASHTO T201	Kinematic Viscosity of Asphalts *(Requires prior AAP accreditation for AASHTO T-201)
—	AASHTO T202	Viscosity of Asphalts by Vacuum Capillary Viscometer *(Requires prior AAP accreditation for AASHTO T-202)
—	AASHTO T240	Effect of Heat and Air on a Moving Film of Asphalt (Rolling Thin Film Oven Test) *(Requires prior AAP accreditation for AASHTO T-240)
—	AASHTO PP1	Practice for Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV) *(Requires prior AAP accreditation for AASHTO PP1)
—	AASHTO TP1	Method for Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer *(Requires prior AAP accreditation for AASHTO TP1)
—	AASHTO TP3	Method for Determining the Fracture Properties of Asphalt Binder in Direct Tension
—	AASHTO TP5	Method for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer *(Requires prior AAP accreditation for AASHTO TP5)
—	ASTM D 5	Penetration of Bituminous Materials (for Asphalt Rubber Designs) *(Requires prior AAP accreditation for ASTM D5)
—	ASTM D 36	Softening Point of Bitumen (Ring-and-Ball Apparatus) (for Asphalt Rubber Designs) *(Requires prior AAP accreditation for ASTM D36)
—	ASTM D 4402	Viscosity Determinations of Unfilled Asphalt Using the Brookfield Thermosel Apparatus *(Requires prior AAP accreditation for ASTM D4402)
—	ASTM D 5329	Resilience (for Asphalt Rubber Designs)